

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Tamko Building Products, Inc. 220 West 4th Street Joplin, MO 64801

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: TAMKO Modified Bitumen Roof System over Poured Gypsum Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0601.14 and consists of pages 1 through 12. The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 1 of 12

ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Modified Bitumen

Material: SBS

Deck Type: Poured Gypsum

Maximum Design Pressure: -75 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<u>Dimensions</u>	Test Specification	Product <u>Description</u>
Awaplan 170 FR	$39^{3}/_{8}$ " wide	ASTM D6164 Type I	Polyester reinforced SBS modified bitumen membrane surfaced with granules and treated for additional fire resistance. Applied in hot asphalt or cold adhesive.
Awaplan 170 [™]	$39^{3}/_{8}$ " wide	ASTM D6164 Type I	Polyester reinforced SBS modified bitumen membrane surfaced with granules. Applied in hot asphalt or cold adhesive.
Awaplan Premium FR [™]	$39^{3}/_{8}$ " wide	ASTM D6164 Type II	Polyester reinforced SBS modified bitumen membrane surfaced with granules. Applied by hot asphalt and also used as a walkway material.
Awaplan Premium [™]	$39^3/_8$ " wide	ASTM D6164 Type II	Polyester reinforced SBS modified bitumen membrane surfaced with granules. Applied in hot asphalt or cold adhesive, and also used as a walkway material.
Awaplan Versa-Smooth	$39^3/_8$ " wide	ASTM D6164 Type I	Polyester reinforced SBS modified bitumen membrane. Applied in hot asphalt, by torch, or mechanically fastened, as a base ply in 2 ply modified systems.
Awaplan Versa-Flex	39-3/8" wide	ASTM D6164 Type I	Nonwoven polyester reinforced SBS modified bitumen membrane. Applied in hot asphalt, as a base ply in 2 ply-modified systems.
Base-N-Ply®	36" wide	ASTM D4601 Type II	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 2 of 12

		Test	Product
Product	Dimensions	Specification	Description
Glass-Base [™]	36" wide	ASTM D4601 Type II	Type II asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Tam-Cap [™]	36" wide	ASTM D3909	Asphalt impregnated and coated felt surfaced with mineral granules used as the top ply in conventional built-up roof membranes.
Tam-Glass Premium [™]	36" wide	ASTM D2178 Type VI	Type VI asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
Tam-Ply IV [™]	36" wide	ASTM D2178 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built-up roofing.
Type 43 Base Sheet	36" wide	ASTM D2626	An organic felt reinforced asphalt base sheet. Applied in hot asphalt or mechanically fastened.
Vapor-Chan [™]	36" wide	ASTM D4897 Type II	Heavy-duty fiberglass base sheet impregnated and coated on both sides with asphalt with or without a fine mineral stabilizer. Surfaced on the bottom side with coarse mineral granules embedded in hot asphaltic coating.
Versa-Base [™]	36" wide	ASTM D6163 Type I	Asphalt impregnated and coated glass fiber base sheet for use in conventional and modified bitumen built-up roofing.
Tam-Pro 846 Fibered Emulsion Coating	5 gallon	ASTM D1227, Type II	Protective coating.
Tam-Pro 813 Asphalt Primer	5 gallon	ASTM D41	Asphalt based primer
Tam-Pro 842 FR Fibered Aluminum Coating	5 gallons	ASTM D2824, Type III	Flame retardant protective coating



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 3 of 12

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam II	Polyisocyanurate insulation	Atlas Roofing Corp
ACFoam Composite	Isocyanurate Insulation with perlite facer	Atlas Roofing Corp.
High Density Wood Fiberboard	High Density Wood Fiber insulation board.	Generic
ENRGY 3	Isocyanurate Insulation.	Johns Manville Corp.
ENRGY 3 25 PSI	Isocyanurate Insulation	Johns Manville Corp.
Fesco Board	Expanded mineral fiber	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	High Density Wood Fiber insulation board.	Blue Ridge Fiberboard
H-Shield	Polyisocyanurate insulation	Hunter Panels LLC
H-Shield-WF	Wood fiber/Isocyannurate Composite Insulation	Hunter Panels LLC

APPROVED FASTENERS:

TABLE 3

TABLE 5				
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	FM-90 Fasteners	Base sheet fastener with intergrated Plate.	2.7" dia. Plate x 1.7" length	ES Products, Inc.
2.	Twin Loc-Nail	Base sheet fastener with intergrated Plate.	2.7" dia. Plate Various Lengths	ES Products, Inc.
3.	Strap Toggle Fastener	Insulation fastener for wood, steel and Gypsum decks.	1/4" dia. x 24" max. length bolt; 2" wide toggle	OMG Inc.
4.	OMG 3" Round Metal Plate	3" round galvalume AZ55 steel plate	3" round	OMG Inc.

NOA No.: 12-0716.14 **Expiration Date: 08/23/16** Approval Date: 08/08/13

Page 4 of 12



EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	<u>Report</u>	<u>Date</u>
Underwriters Laboratories, Inc.	UL 790	R3225	10/03/12
Factory Mutual Research Corp.	Class 4470 Class 4470 Class 4470 Class 4470 Class 4470 Class 4470	J.I. 4D0A7.AM J.I. 0Z4A3.AM J.I.1D4A7.AM J.I. 3B5A9.AM 3027787 3027789	10/21/98 08/27/97 10/20/97 08/27/98 08/14/06 08/14/06
Dynatech Engineering Corp.	Class 4470 Class 4470 TAS 114	3027790 3027791 4440.05.95-2	08/14/06 08/14/06 05/01/95
Exterior Research & Design, LLC	TAS 114 TAS 114	4440.05.95-1 4444.06.98-1	05/01/95 06/15/98
IRT-Arcon, Inc. Trinity ERD	TAS 114 TAS 117 TAS 117 & TAS 114	02-011 C8500SC.00.07 C12410.08.09	02/11/02 11/30/07 08/14/09
PRI Construction Materials Technologies LLC	ASTM D 5147/ D 6164 ASTM D 5147/ D 6164 ASTM D 6163 ASTM D 4601 ASTM D 2178 ASTM D 2178 ASTM D 2178 ASTM D 2626 ASTM D 4897 ASTM D 3909 ASTM D 5147/ D 6164 ASTM D 6164	TAP-252-02-01 TAP-253-02-01 TAP-254-02-02 TAP-255-02-01 TAP-255-02-02 TAP-256-02-01 TAP-256-02-02 TAP-257-02-01 TAP-257-02-03 TAP-266-02-01 TAP-272-02-01	03/14/12 03/14/12 01/24/12 11/04/11 11/04/11 11/04/11 12/12/11 11/18/11 11/18/11 06/19/12 08/03/12



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 5 of 12

APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck Type 6I: Poured Gypsum, Insulated **Deck Description:** Poured Gypsum Concrete

System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered with

approved asphalt.

All General and System Limitations apply.

One ply of Tamko Glass-Base or Vapor-Chan fastened to the deck as described **Anchor Sheet:**

below:

Fastening: (Option #1) Attach anchor sheet using ES Products FM-90 Fasteners spaced 9"

o.c. in a 2" lap and 18" o.c. in two staggered rows in the center of the sheet.

(Option #2) Attach anchor sheet using ES Products FM-90 Fasteners spaced 7½"

o.c. in a 4" lap and $7\frac{1}{2}$ " o.c. in one row in the center of the sheet.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ACFoam II	,	·
Minimum 1.2" thick	N/A	N/A
ENRGY 3, ENRGY 3 25 PSI, H-Shield		
Minimum 1.4" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Fesco Board	,	·
Minimum 3/4" thick	N/A	N/A
Approved High Density Wood Fiberboard, Structo	odek High Density Fiberboard	
Minimum 1/2" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Tam-Ply IV, Tam-Glass Premium, Glass-Base, Base-N-Ply, Versa-

> Base, Versa-Smooth, Awaplan VersaFlex, or Vapor-Chan adhered to the insulated substrate with a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.



NOA No.: 12-0716.14 **Expiration Date: 08/23/16** Approval Date: 08/08/13

Page 6 of 12

Ply Sheet: (Optional) One or more plies of Tam-Glass Premium, Tam-Ply IV, Base-N-Ply,

Awaplan VersaFlex, or Versa-Base adhered with a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: Awaplan Premium, Awaplan Premium FR, Awaplan 170, Awaplan 170 FR,

Awaplan Versa-Smooth or Awaplan VersaFlex adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or Awaplan Premium, Awaplan Premium FR or Versa-Smooth adhered by torch.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced

membranes. Any coating, listed below, used as a surfacing, must be listed within

a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq..

2. Tam-Pro 842 FR Fibered Aluminum Coating, Henry 520, or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846

Fibered Emulsion at 3 gal./sq.

Maximum Design

Pressure: -52.5 psf. (See General Limitations #9).



NOA No.: 12-0716.14 **Expiration Date: 08/23/16** Approval Date: 08/08/13

Page 7 of 12

Membrane Type: SBS

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type B: Base layers of insulation mechanically fastened, top layer adhered with approved

asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ACFoam II, H-Shield	,	·
Minimum 1.2" thick	3	1:2 ft ²
Minimum 1.4" thick	3	1:4 ft ²
ENRGY 3, ENRGY 3 25 PSI		
Minimum 1.4" thick	3	1:2 ft ²
ACFoam Composite		
Minimum 1.5" thick	3	1:2 ft ²
Fesco Board, Structodek High Density Fibe	erboard, Approved High Density Wood F	iberboard
Minimum 1" thick	1	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

(Optional) Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Fesco Board Minimum 3/4" thick	N/A	N/A
ACFoam Composite, H-Shield-WF Minimum 1.5" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of Tam-Ply IV, Tam-Glass Premium, Glass-Base, Base-N-Ply, Versa-

Base, Versa-Smooth, Awaplan VersaFlex, or Vapor-Chan adhered to the

substrate with a full mopping of approved asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq.



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 8 of 12 **Ply Sheet:** (Optional) One or more plies of Tam-Glass Premium, Tam-Ply IV, Base-N-Ply,

Awaplan VersaFlex, Versa-Smooth, or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Versa-Smooth may be adhered by torch.

Membrane: Awaplan Premium, Awaplan Premium FR, Awaplan 170, Awaplan 170 FR,

Awaplan Versa-Smooth or Awaplan VersaFlex adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or Awaplan Premium, Awaplan Premium FR or Versa-Smooth adhered by torch.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced

membranes. Any coating, listed below, used as a surfacing, must be listed within

a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq..

2. Tam-Pro 842 FR Fibered Aluminum Coating, Henry 520, or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846

Fibered Emulsion at 3 gal./sq.

Maximum Design

Pressure: -45 psf. (See General Limitations #9).



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 9 of 12 Membrane Type: SBS

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type C: All layers of insulation simultaneously mechanically fastened.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ACFoam II, H-Shield	(-1)	- W-13/1-1
Minimum 1.2" thick	N/A	N/A
ENRGY 3, ENRGY 3 25 PSI		
Minimum 1.4" thick	N/A	N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Fesco Board, Structodek High Density Fiberboard, Approved High Density Wood Fiberboard
Minimum 1" thick 3 1:2 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Tam-Ply IV, Tam-Glass Premium, Glass-Base, Base-N-Ply, Versa-

Base, Versa-Smooth, Awaplan VersaFlex, or Vapor-Chan adhered to the substrate with a full mopping of approved asphalt applied within the EVT range

and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional) One or more plies of Tam-Glass Premium, Tam-Ply IV, Base-N-Ply,

Awaplan Versa-Flex, Versa-Smooth, or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Versa-Smooth may be adhered by torch.

Membrane: Awaplan Premium, Awaplan Premium FR, Awaplan 170, Awaplan 170 FR,

Awaplan Versa-Smooth or Awaplan VersaFlex adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or Awaplan Premium, Awaplan Premium FR or Versa-Smooth adhered by torch.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced

membranes. Any coating, listed below, used as a surfacing, must be listed within

a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq..

2. Tam-Pro 842 FR Fibered Aluminum Coating, Henry 520, or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846

Fibered Emulsion at 3 gal./sq. **Maximum Design**

Pressure: -45 psf. (See General Limitations #9).



NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 10 of 12 Membrane Type: SBS

Deck Type 6: Poured Gypsum Concrete, Non-insulated

Deck Description: Poured Gypsum Concrete.

System Type E: Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of Tamko Glass-Base or Vapor-Chan fastened to the deck as described

below:

Fastening: (Option #1) Attach base sheet using ES Products FM-90 Fasteners spaced 9" o.c.

in a 2" lap and 18" o.c. in two staggered rows in the center of the sheet. *Maximum Design Pressure -52.5 psf; (See General Limitation #9)*

(Option #2) Attach base sheet using ES FM-90 Fasteners spaced 7½" o.c. in a 4"

lap and 7½" o.c. in one row in the center of the sheet.

Maximum Design Pressure -52.5 psf; (See General Limitation #9)

(Option #3) Attach base sheet with ES Products 1.8" Twin Loc-Nail fasteners spaced 9" o.c. at the 3" side lap and two rows staggered 12" o.c. in the center of

the sheet.

Maximum Design Pressure -75 psf; (See General Limitation #7)

Ply Sheet: (Optional) One or more plies of Tam-Glass Premium, Tam-Ply IV, Base-N-Ply,

Awaplan VersaFlex, Versa-Smooth, or Versa-Base adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq..

Versa-Smooth may be adhered by torch.

Membrane: Awaplan Premium, Awaplan Premium FR, Awaplan 170, Awaplan 170 FR,

Awaplan Versa-Smooth or Awaplan VersaFlex adhered with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.; or Awaplan Premium, Awaplan Premium FR or Versa-Smooth adhered by torch.

Surfacing: Optional for mineral surfaced Membranes. Required for smooth surfaced

membranes. Any coating, listed below, used as a surfacing, must be listed within

a current NOA.

1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping

asphalt at an application rate of 60 lb./sq..

2. Tam-Pro 842 FR Fibered Aluminum Coating, Henry 520, or Karnak 97AF applied at 1½ gal./sq., or Grundy Fibered Asphalt Emulsion, or Tam-Pro 846

Fibered Emulsion at 3 gal./sq.

Maximum Design

Pressure: See Base Sheet Fastening Options.

MIAMI-DADE COUNTY
APPROVED

NOA No.: 12-0716.14 Expiration Date: 08/23/16 Approval Date: 08/08/13 Page 11 of 12

GENERAL LIMITATIONS:

- Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45
- Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 12-0716.14 **Expiration Date: 08/23/16** Approval Date: 08/08/13

Page 12 of 12